



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3



Certificate No.: TC-5548

Format No: CP/TF/01

Date: 05/02/2018

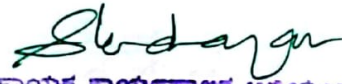
TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-01-31-08
Customer : Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.
Address : Dasarahalli Sub division, BBMP, Bangalore.
Project Name : Improvements to roads and drains at 2nd main and 8th cross Manjunatha nagar in Ward no.14 Bagalagunte.
Agency : Technical Manager West, KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.
Customer's Reference : BBMP/EE/DD/WO/83/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 31-01-2018
Sample ID No : 2018-01-31-08 /01
Customer ID : M20 Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 05/02/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	M20 Concrete	M20	29/01/2018	05/02/2018	150.22 X 150.34 X 150.35	22584	8.327	393.0	17.4	17.6
2	M20 Concrete	M20	29/01/2018	05/02/2018	150.29 X 150.44 X 150.35	22610	8.299	397.9	17.6	
3	M20 Concrete	M20	29/01/2018	05/02/2018	150.25 X 150.34 X 150.35	22589	8.324	404.3	17.9	

Note:

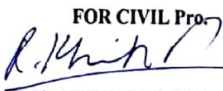
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All information furnished by Customer/Representative
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Samples will be disposed after 90 days from the date of issue of test certificate


ಕಾರ್ತಿಕ ರೆಚನ್
ಟಿ.ದಾಸರವಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬೆಂಗಳೂರು
ಬೆಂಗಳೂರು

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****End of Report****



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R KARTHIK RECHAN
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No. : TC-5548

Format No. CIV/11/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-01-31-08 Date: 26/02/2018

Customer : Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.

Address : Dasarahalli Sub division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at 2nd main and 8th cross Marjunatha Nagara in ward no.14

Agency : Bagalagunte.

Technical Manager west, KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' main road,

3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/DD/NO/83/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 31-01-2018

Sample ID No : 2018-01-31-08 /02

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/02/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Squ mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	M20 Concrete	M20	29/01/2018	26/02/2018	150.22 X 150.34 X 150.35	22584	8.327	505.9	22.4	21.8
2	M20 Concrete	M20	29/01/2018	26/02/2018	150.29 X 150.44 X 150.35	22610	8.299	486.1	21.5	
3	M20 Concrete	M20	29/01/2018	26/02/2018	150.25 X 150.34 X 150.35	22589	8.324	487.9	21.6	

Note:

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Shubay gu
ಕಾರ್ಯದರ್ಶಿ, ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು



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R. K. R. R.

R. KARTHIK RECHAN

Authorized Signatory

Quality Manager

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TEST RESULTS OF STEEL

Lab ID : CP-2018-01-25-01
Customer : Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.
Address : Dasarahalli Sub division, BBMP, Bangalore.
Project Name : Improvements to roads and drains at 2nd main and 8th cross Manjunatha nagar in Ward no.14 Bagalagunte.
Agency : Technical Manager West, KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.
Customer's Reference : BBMP/EE/DD/WO/83/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 25-01-2018
Sample ID No : 2018-01-25-01 /05
Sample Type : Sunvik
Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test: : 26-01-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm ²)	(N/mm ²)	(%)		
1	Sunvik	Fe500	8	0.393	522	638	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.612	558	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.884	571	688	20.0%	Satisfactory	Satisfactory

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ಕಾರ್ಯಕರ್ತೃ ಸಹ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು



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Format No: CPTR/04

TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2018-01-25-01 Date: 29-01-18
Customer : Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.
Address : Dasarahalli Sub division, BBMP, Bangalore.
Project Name : Improvements to roads and drains at 2nd main and 8th cross Manjunatha nagar in Ward no. 14 Bagalagunte.
Agency : Technical Manager West, KRIDL, Project Implementation Unit, No.280, 99th cross, 17th 'C' main road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.
Customer's Reference : BBMP/EE/DD/WD/83/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 25-01-2018
Sample ID No : 2018-01-25-01 /06
Sample Type /Size : Precast Cover Slab
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test : 25/01/2018

SL No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	75.26	100.27	1.386	4448	75.2	16.9	15.7	19.7
2	Cover Slab-2	75.18	100.42	1.427	4438	72.5	16.3	15.2	19.0
3	Cover Slab-3	75.43	100.29	1.518	4468	73.7	16.5	15.3	19.2

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Shreyas
ANALYST
25-01-2018
2018-01-25-01 /06
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TEST RESULTS OF GRADATION FOR GSB (IS 2386:(Part 1) 1963 (RA2011))

Lab ID : CP-RW-2018-01-16-13 Date: 19-01-18
Customer : Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.
Address : Dasarahalli Sub division, BBMP, Bangalore.
Project Name : Improvements to roads and drains at 2nd main and 8th cross Manjunatha nagar in Ward no.14 Bagalagunte.
Agency : Technical Manager West, KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.
Customer Reference : BBMP/EE/DD/WO/83/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 16-01-18
Sample ID No : 2018-01-16-13/01
Type of Mix : GSB (Granular Sub Base)
Date of test : 16-01-18
Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	827	827	7.52	92.48	80-100
26.5	1836	2663	24.21	75.79	55-90
9.5	1482	4145	37.68	62.32	35-65
4.75	1538	5683	51.66	48.34	25-55
2.36	1684	7367	66.97	33.03	20-40
0.425	1737	9104	82.76	17.24	10-25
0.075	1896	11000	100.00	0.00	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table 400.2 MORTH Specification
1	Liquid Limit, %	21.34%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

Note:-

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ಬಿ.ದಾಸರವಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಜಿಎಂಪಿ
ಬೆಂಗಳೂರು

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Lab ID

CP-RW-2018-02-06-05

Date: 08-02-18

Date: 08-02-18
Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.

: : Engineer, Dasarahalli Sub division, BBMP, Bangalore.
 : : Improvements to roads and drains at 2nd main and 8th cross Manjunatha
 : : nagar in Ward no.14 Bagalagunte.
 : : Technical Manager, BBMP, Bangalore.

Technical Manager West, KRIDL, Project Implementation Unit, No.280,
59th cross, 17th 'C' main road, 3rd 'Y' Block, Rajajinagar, Bangalore-
560010.

BBMP/EE/DD/WO/83/2017-18

BBMP/EE/DD/WO/83/2017
Sample supplied by Agency

: Sample supply
: Satisfactory

Satisfactorio

06-02-18

: 06-02-18
: 2018-02-06-05/01

: 2018-02-06-05/01
: WMM (Wet Mix Macadam)

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:      WMM (
:      06-02-18

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:	06-02-18	
:	11000	Grams

Note:-

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Certificate No : TC-0548

TEST REPORT OF AGGREGATE IMPACT VALUE

IS: 2386 Part IV

Lab ID : CP-RW-2018-02-06-05
Customer : Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.
Address : Dasarahalli Sub division, BBMP, Bangalore.
Project Name : Improvements to roads and drains at 2nd main and 8th cross Manjunatha nagar in Ward no.14 Bagalagunte.
Agency : Technical Manager West, KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.
Customer Reference : BBMP/EE/DD/WO/83/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 06-02-18
Sample ID No : 2018-02-06-05/01
Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test : 06-02-18

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	305.2	305.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	78.9	79.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	25.9	25.9
6	Aggregate impact value (Mean of two tests)	Percentage	25.9	

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